STORMVAULT COALESCING PLATE SEPARATOR
MODEL: SVCPS-3/8-50

SYSTEM AND TREATMENT FLOW DESIGN:

INFLUENT CONCENTRATION
150 MG/L

TARGET EFFLUENT CONCENTRATION
50 MG/L

WATER QUALITY TREATMENT FLOWRATE (WQTF)
30 GPM (0.08 CFS)

TARGET DROPLET SIZE PARTICLE SIZE TO BE REMOVED
47.57 μM

SPACING BETWEEN LAMELLA PLATES
2/3

NUMBER OF 14" WIDE x 28.8" LONG ALUMINUM PLATES
24

NUMBER OF LAMELLA PLATE STACKS
3

NUMBER OF LAMELLA PLATES PER STACK
1 : 40

LAMELLA PLATES TREATMENT PERFORMANCE NOTES:

1. THE STORMVAULT COALESCING PLATE SEPARATOR SYSTEM (LAMELLA) IS EFFECTIVE IN REDUCING OIL DROPLETS DOWN TO 15 MG/L AND TSS CONCENTRATION DOWN TO 50 MG/L IN THE EFFLUENT FLOW

LAMELLA PLATE DESIGN ASSUMPTIONS:

1. MEAN OIL DROP SIZE
μM

2. STANDARD DEVIATION
2.0

3. LOG-NORMAL DISTRIBUTION WITH 60°F

4. STORMVAULT COALESCING PLATE SEPARATOR SYSTEM (LAMELLA) IS MANUFACTURED USING HIGH GRADE ALUMINUM.

5. FOR WATER QUALITY DISCHARGE TO STORM SYSTEM UNIT REQUIRING DIVERSION/BYPASS SYSTEM, SEE JENSEN DIVERTER STRUCTURE.

GENERAL NOTES:

1. SOME INTERNAL COMPONENTS NOT SHOWN FOR CLARITY.

2. EACH VAULT SECTION HAS AN ACCESS LD UNLESS SHOWN OTHERWISE.

3. ALL INTERNAL COMPONENTS INSTALLED BY JENSEN UNLESS OTHERWISE SPECIFIED.

4. FOR UNITS REQUIRING WATER QUALITY DIVERSION/BYPASS SYSTEM, SEE JENSEN DIVERTER STRUCTURE.

5. PANEL DETAILS AND PANEL WIRING DRAWINGS AVAILABLE TO SUPPORT OPTIONAL LEVEL ALARM SENSOR SYSTEM INSTALLATION.

CONSTRUCTION NOTES:

1. ALL DIMENSIONS ARE IN FRACTIONAL INCHES.

2. CONTRACTOR TO VERIFY ALL DROPLET PIECES IN FIELD.

3. VERIFY DIMENSION AND CONDITION OF REMOVABLE ALUMINUM FRAME AND MEDIA-PACKS BEFORE INSTALLATION.

4. VERIFY SUBGRADE/ELEL. ELEVATION BEFORE PLACING PRECAST COMPONENTS OR BACKFILLING.

5. APPLY BUTYL MASTIC AND/OR GROUT TO SEAL JOINTS OF STRUCTURE.

6. APPLY LOAD TO MASTIC SEAL IN JOINTS OF VAULT TO COMPRESS SEALANT IF NECESSARY. UNIT MUST BE WATER TIGHT, HOLDING WATER UP TO FLOWLINE INVERT (MINIMUM).

7. CONTRACTOR TO GROUT SEAL INLET AND DISCHARGE PIPES TO VAULT/MANHOLE WALL IF NO BOOT CONNECTION SPECIFIED.

8. BLOCK AND/OR GROUT PACK BENEATH FRAMES AND COVERS TO MATCH FINISHED GRADE.

9. TOP & BOTTOM SLABS AND WALL THICKNESS SHALL BE DESIGNED FOR SPECIFIC PROJECT INSTALLATION DEPTHS.

MATERIALS:

1. PRECAST VAULT MATERIALS AND MANUFACTURING METHODS SHALL CONFORM TO ALL APPLICABLE ASTM AND ASSHTO SPECIFICATIONS.

MATERIAL LIST - PROVIDED WITH UNIT:

<table>
<thead>
<tr>
<th>NO.</th>
<th>COMPONENT DESCRIPTION</th>
<th>MATERIAL PROVIDER</th>
<th>RESPONSIBLE INSTALLER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6&quot; Ø INLET AND OUTLET PIPE</td>
<td>JENSEN</td>
<td>CONTRACTOR</td>
</tr>
<tr>
<td>2</td>
<td>6&quot; Ø INLET AND OUTLET VERTICAL PIPE AND TEE</td>
<td>JENSEN</td>
<td>CONTRACTOR</td>
</tr>
<tr>
<td>3</td>
<td>REMOVABLE COALESCING FRAMEWORK ASSEMBLY</td>
<td>JENSEN</td>
<td>CONTRACTOR</td>
</tr>
<tr>
<td>4</td>
<td>FIXED COALESCING FRAMEWORK ASSEMBLY</td>
<td>JENSEN</td>
<td>CONTRACTOR</td>
</tr>
<tr>
<td>5</td>
<td>OIL &amp; GREASE SORBENT MATS OR PADS</td>
<td>JENSEN</td>
<td>CONTRACTOR</td>
</tr>
<tr>
<td>6</td>
<td>6&quot; Ø CAST IRON FRAME AND COVER</td>
<td>JENSEN</td>
<td>CONTRACTOR</td>
</tr>
<tr>
<td>7</td>
<td>72&quot; X 60&quot; ACCESS RISER</td>
<td>JENSEN</td>
<td>CONTRACTOR</td>
</tr>
<tr>
<td>8</td>
<td>24&quot; Ø CAST IRON FRAME AND COVER</td>
<td>JENSEN</td>
<td>CONTRACTOR</td>
</tr>
<tr>
<td>9</td>
<td>72&quot; X 60&quot; ACCESS HATCH</td>
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